

# CORMASTER NOMEX AEROSPACE C1

THE IDEAL LIGHTWEIGHT MATERIAL FOR  
AERONAUTICAL APPLICATIONS

## ADVANTAGES

Superior mechanical properties with high strength to weight ratios  
High dimensional stability under heat and moisture  
High temperature capabilities, service temperature up to 180°C  
Product uniformity and exceptional resin to paper cohesion  
Self extinguishing and low fumes toxicity  
Corrosion resistance against water, oils and fuel.

## DELIVERY TIME

NOMEX honeycomb is available from Corex Honeycomb stock, ensuring short lead times. Delivery time on request.

## MATERIAL

Non metallic structures made from NOMEX® T412 paper sheets Bonded together and coated with a phenolic resin.

## APPLICATION

Main structural sandwich applications of the aeronautical industry  
NOMEX honeycombs types follow the requirements of the aeronautical specifications.



Please get in touch to discuss your requirements and to find out more about Cormaster NOMEX.

Email: [sales@corex-honeycomb.com](mailto:sales@corex-honeycomb.com)  
Call Sales Support on: +44(0) 1480 415053  
[corex-honeycomb.com](http://corex-honeycomb.com)



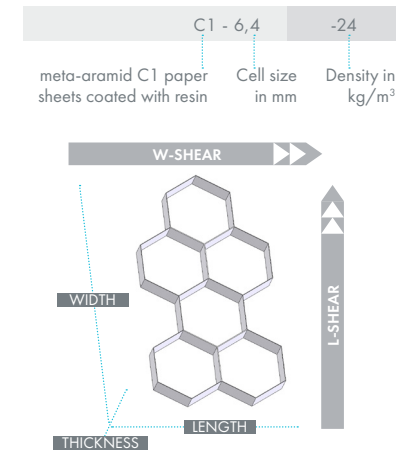
# TECHNICAL DATA CORMASTER NOMEX AROSPACE C1



		compressive strength (MPa)		shear strength (MPa)		shear modulus (MPa)	
		bare	stabilized	L	W	L	W
<b>HEXAGONAL CONFIGURATION</b>							
<b>C1 - 3,2</b>	-29	0,56	0,75	0,45	0,3	15,0	11,0
	-48	1,8	2,1	1,35	0,8	42,0	25,0
	-56	1,9	2,55	1,45	0,9	46,0	27,0
	-64	3,1	3,4	1,75	1,0	55,0	35,0
	-80	4,4	4,9	1,95	1,08	62,0	35,0
	-96	5,9	6,4	2,15	1,2	77,6	45,0
	-123	9,9	10,0	3,0	2,0	95,0	65,0
	-128	8,3	9,2	3,1	2,0	107,0	51,0
	-144	10,5	11,9	3,1	2,2	108,0	58,7
<b>C1 - 4,0</b>	-123	7,5	8,0	3,0	1,9	100,0	62,0
<b>C1 - 4,8</b>	-32	0,8	0,9	0,6	0,35	20,0	14,0
	-48	2,0	2,3	1,25	0,6	41,0	25,0
	-56	2,2	2,5	1,3	0,65	45,0	29,0
	-64	3,0	3,5	1,8	0,95	55,0	30,0
	-96	6,5	7,0	2,6	1,45	82,0	40,0
<b>C1 - 6,4</b>	-24	0,4	0,45	0,35	0,23	13,5	9,0
	-32	0,65	0,8	0,55	0,35	19,0	14,0
	-50	2,1	2,3	1,2	0,59	41,4	17,7
	-64	3,2	3,5	1,5	0,8	51,0	25,0
	-80	3,5	3,9	1,9	1,05	38,5	29,5
<b>C1 - 9,5</b>	-24	0,4	0,47	0,34	0,22	13,3	9,63
	-32	0,68	0,77	0,65	0,32	16,3	13,4
	-48	1,3	1,57	0,82	0,4	28,8	18,5
<b>OVEREXPANDED CONFIGURATION</b>							
<b>C1 - 4,8</b>	-29 OX	0,6	0,68	0,45	0,32	9,5	14,1
	-48 OX	2,2	2,7	0,79	0,79	30,0	30,0
<b>C1 - 6,4</b>	-48 OX	1,8	2,0	0,74	0,74	18,0	25,0
	-56 OX	2,0	2,3	0,9	0,9	21,0	32,0

Honeycomb density: the allowable tolerance is +/- 10 % from the nominal density. Exceptions to this are 3.2-29, 4.8-29 OX and 6.4-24, which have a tolerance of +/- 13 % of the density. These mechanical properties are only representative.

Please note, that it is important to consider the different properties for L- and W-Shear and confirm the Cormaster type to enable us to provide a quotation.



Please get in touch to discuss your requirements and to find out more about Cormaster NOMEX.

Email: [sales@corex-honeycomb.com](mailto:sales@corex-honeycomb.com)  
 Call Sales Support on:  
 +44(0) 1480 415053  
[corex-honeycomb.com](http://corex-honeycomb.com)